

Date: Sat, 11 Dec 93 04:30:47 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #129
To: Ham-Homebrew

Ham-Homebrew Digest Sat, 11 Dec 93 Volume 93 : Issue 129

Today's Topics:

 Bringing Kenwood TK-701S down to 2M.
 Built in transmatch
 Kenwood HT Batteries - homebrew charger
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Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 8 Dec 1993 17:49:11 GMT
From: ucsnews!sol.ctr.columbia.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
news.cic.net!condor.ic.net!iunet!grex!n8nxf@network.ucsd.edu
Subject: Bringing Kenwood TK-701S down to 2M.
To: ham-homebrew@ucsd.edu

I have a Kenwood TK-107S VHF high band radio (150 to 174MHz) that
I want to re-tune for the 2M amateur band. This seems to be a very
well designed radio and should make a fine 2M rig.

I ordered a service manual from a Kenwood rep.(\$33!!), but it seems
to be a take-out from the owners manual. I'd like to get the
owners manual, or its remainder, too. If you have, or can direct me
to, such a manual at a reasonable price, please let me know.

I would also like to hear from anyone who has done this conversion
on this radio. I'd be interested in what components you changed
and any other pit-falls I should watch out for.

This radio has only 16 different ROM locations for different frequencies. I am currently considering several different schemes for covering the entire 2M ham band and + - offsets. I am not interested in out of band operation. This radio was designed with a tight front end and I want to keep it that way. I am currently looking at using a micro controller, BCD thumb switch to ROM decoder or up/down counter with LED display for freq. readout. I'd like to be able to punch in the freq., offset, and maybe do some scanning. Any low cost, easy to implement ideas out there? BTW, I don't want it tied to a PC, etc.

(This radio has 16 inputs to the PLL for frequency programming.
 $N = \text{Hex}((\text{xxxxxx} - 2140) * 2)$, where xxxxxx is the frequency of interest in 10's of KHz and N is the resulting 4 place hex No. fed to the PLL.)

Thank you for any help!

Klaus (n8nxf@cyberspace.org)

Date: 9 Dec 1993 18:56:54 GMT
From: pravda.sdsc.edu!usc!howland.reston.ans.net!cs.utexas.edu!swrinde!
elroy.jpl.nasa.gov!ncar!csn!col.hp.com!jms@network.ucsd.edu
Subject: Built in transmatch
To: ham-homebrew@ucsd.edu

Zack Lau (zlau@arrl.org) wrote:

: Has anyone figured how to design an RF output stage
: with a built in transmatch that can't be mistuned
: as a frequency multiplier?

: This seems to be a big drawback of most tube output
: networks--while they work fine as limited range
: transmatches how can you tell you have it tuned
: up in the proper band? It isn't always practical to
: have an appropriately located station listen to
: see which tuning settings are the right ones!

: Obviously, putting in a low pass filter between the
: matching network and the transmatch is one solution,
: but modern transceivers *already* do that.

: Anyone with a cheap and simple solution?

Start with the plate tuning capacitor at maximum capacity and tune for a dip? Or are you referring to using one band position to tune 2 bands, e.g. the 'WARC' bands?

K0TER

Date: Wed, 08 Dec 93 16:34:47 GMT
From: netcomsv!netcom.com!netcomsv!bongo!skyld!jangus@decwrl.dec.com
Subject: Kenwood HT Batteries - homebrew charger
To: ham-homebrew@ucsd.edu

In article <35923@dog.ee.lbl.gov> biocca@csg.lbl.gov writes:

>
> I'm considering building a charger for the TH-78a batteries. There

Well, unless you *like* to experiment, why not just buy a kenwood charger.

These battery packs cost from \$50 to \$100 and the radios a lot more. Is the savings in homerolling worth the risk of ruining either a battery pack or the radio?

Similar problems arise when people decide they don't need to spend the \$30 for the cigarette lighter adaptor. It's OK if you copy the large inductor and capacitor circuitry so that the spikes from your automotive electrical system don't kill the handheld.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA	"It is difficult to imagine our
Internet: jangus@skyld.tele.com	universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749	potent god. I see it more as a
Phone: 1 (310) 324-6080	badly run corporation."

Date: 10 Dec 93 22:23:09 GMT
From: news-mail-gateway@ucsd.edu
Subject: UNSUBSCRIBE
To: ham-homebrew@ucsd.edu

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End of Ham-Homebrew Digest V93 #129
